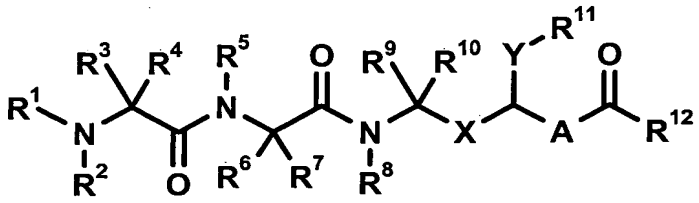
Claims

1. Compounds of the general Formula



(II)

Wherein

A represents an optionally substituted 5- or 6-membered heteroaryl ring;

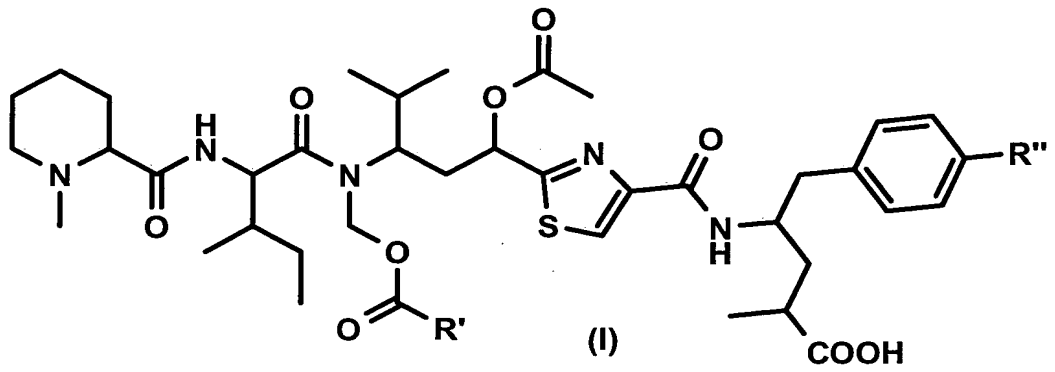
X is O, S or a group of Formula NR^{13} or $CR^{14}R^{15}$;

Y is O, S or a group of Formula NR^{16} and

Residues R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12}, R^{13}, R^{14}, R^{15} and R^{16} are independently of each other H, alkyl, alkenyl, alkinyl, heteroalkyl, aryl, heteroaryl, cycloalkyl, alkylcycloalkyl, heteroalkylcycloalkyl, heterocyloalykl, aralkyl or heteraralkyl, or two residues constitute part of a cycloalkyl or heterocycloakyl,

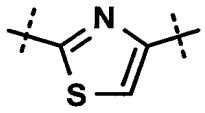
or a pharmacologically acceptable salt, solvate, hydrate or a pharmacologically acceptable formulation thereof;

wherein compounds of Formula (I) are excluded,



wherein R' is H, alkyl, alkenyl, aryl, or heteroaryl and R'' is H, OH, alkyl, aryl or heteroaryl.

2. Compounds of Claim 1, wherein A has the following structure:



3. Compounds of Claim 1 or 2, wherein X is a CH_2 group.

4. Compounds of Claim 1 to 3, wherein Y is O.

5. Compounds according to anyone of Claim 1 to 4, wherein R^1 is a C_1-C_4 alkyl group.

6. Compounds according to anyone of Claims 1 to 5, wherein, R^2 and R^3 together constitute a group of Formula $(CH_2)_n$ wherein n is 2, 3, 4 or 5.

7. Compounds according to Claims 1 to 6, wherein R^4 is H or methyl.

8. Compounds according to Claims 1 to 7, wherein R^5 is H.

9. Compounds according to Claims 1 to 8, wherein R^6 is C_1-C_6 alkyl, C_3-C_6 cycolalkyl or C_4-C_7 alkylcycloalkyl.

10. Compounds according to Claims 1 to 9, wherein R^7 is H or methyl.

11. Compounds according to Claims 1 to 10, wherein R^8 is a group of Formula CH_2OCOR^{17}, wherein R^{17} is C_1-C_7 alkyl or C_1-C_6 alkenyl.

12. Compounds according to Claims 1 to 11, wherein R^9 is C_1-C_6 alkyl.

13. Compounds according to Claims 1 to 12, wherein R^{10} is H or methyl.

14. Compounds according to Claims 1 to 13, wherein R^{11} is H or a group of Formula (C=O)-(C_{1-4})alkyl.

15. Compounds according to Claims 1 to 14, wherein R^{12} is a group of Formula $NR^{18}R^{19}$, wherein R^{18} is H or methyl and wherein R^{19} is aralkyl or heteroaralkyl.

16. A pharmaceutical composition containing a compound according to Claims 1 to 15 and optionally carriers and/or adjuvants.

17. Use of compounds or a pharmaceutical composition according to Claims 1 to 16 for the treatment of tumors, immune diseases, autoimmune diseases, inflammatory diseases and rheumatoid arthritis as well as surface modifications of plastic or metal implants.

18. Use of a compound or a pharmaceutical composition according to Claims 1 to 16 for the treatment of cancer diseases.

The present invention relates to novel tubulysin analogs and its use for the treatment of cancer diseases.